

## SC/APC Fiber Optic Fast Connector Specification

### Product overview:

The Fast Connector (Field Assembly Connector or Field terminated fiber connector, quickly assembly Fiber connector) is a revolutionary field installable optical fiber connector that requires no epoxy and no polishing. The unique design of the patented mechanical splice body incorporates a factory-mounted fiber stub and a pre-polished ceramic ferrule. Using this onsite assembly optical connector, it is possible to improve the flexibility of optical wiring design as well as reducing the time required for fiber termination. The Fast connector series are already a popular solution for optical wiring inside buildings and floors for LAN & CCTV applications and FTTH.

### Specification:

Parameters	Value	Parameters	Value
Insertion Loss	$\leq 0.5$ dB	Repeatability (500 Mating Times)	$\Delta$ I.L. $\leq 0.3$ dB
Return Loss	$\geq 45$ dB	Temperature cycle	$\Delta$ I.L. $\leq 0.3$ dB
Tensile strength	F>50N	Vibration test	$\Delta$ I.L. $\leq 0.3$ dB
Operating Temperature	-20 ~ +75°C	Flooding test	$\Delta$ I.L. $\leq 0.3$ dB
Storage Temperature	-40 ~ +85°C	Tensile strength	F>50N

Item	Parameter
Cable Scope	3.0 x 2.0 mm and 1.6*2.0mm Bow-type Drop Cable
Size	51*9*7.55mm
Coating Diameter	250 $\mu$ m
Mode	SM
Operation Time	about 15s(exclude fiber presetting)
Insertion Loss	$\leq 0.3$ dB(1310nm & 1550nm)
Return Loss	$\leq -50$ dB for UPC, $\leq 55$ dB for APC
Success Rate	>98%
Reusable Times	>5 times
Tighten Strength of Naked Fiber	>5 N
Tensile Strength	>30 N
Temperature	-40 ~ +85 C
On-line Tensile Strength Test (20 N)	IL $\leq 0.3$ dB
Mechanical Durability(500 times)	IL $\leq 0.3$ dB
Drop Test	IL $\leq 0.3$ dB

### Operation Instruction:

### Product Components:

## Operation Instruction:

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## Operation Steps:

### ESC250D/APC

Field Assembly Optical Connector

#### Usage Instruction

- Thank you very much for purchasing and using this product.
- For using this product correctly, this instruction must be read carefully before usage.
- After reading, please be sure to keep this instruction in a place where the user can get at any time.

#### The product:

Cable holder    Connector

Cutting length. (Picture shown only for reference):

**Operation step :**

1. Insert the drop cable into the cable jacket stripper, the cable length as the mark, press handles, draw out the cable.
2. Put the cable into the cutting jig, remove 250um fiber coating.
3. Bend the fiber to four directions of 60° to check whether damage, then use cleaning paper dipped in alcohol to clean the fiber.
4. Put the cable into the cable holder and close the lock, then put the cable with the cable holder into the cutting jig.
5. Put the cable into the cutting jig, cut the bare fiber.
6. Press the opener, then insert the fiber into the tail of connector till the limit.
7. Check whether the rear fiber is bent, if not, re-cut the fiber and assembly.
8. Press the cover, remove the opener, complete the assembly.

**Repeat assembly:**

(1) Remove the rear cover from two sides.

**Notes for cable holder:**

2.0\*3.0mm drop cable :

2.0\*1.6mm drop cable :

**Caution items:**

1. Please use this product according to the cable type.
2. Failure to install in accordance with the instructions on the use of the product, you yourself have to shoulder your responsibility.
3. Waste fiber can cause harm to the human body, should be properly dealt with.
4. Tools should be configured by the user, the product content does not involve this.
5. The product picture of this instruction is only for reference, please make the object as the standard.